

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE
(Rev. 2-32) PATENT AND TRADEMARK OFFICE

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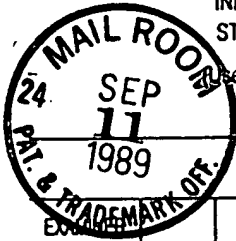
(Use several sheets if necessary)

APPLICANT

David Whipple

FILING DATE
herewith

GROUP



U.S. PATENT DOCUMENTS

INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MM	4 2 3 2 2 9 4	11/80	Burke et al (C)			
MM	4 3 2 0 5 0 2	3/82	deVeer			
MM	4 3 3 6 4 8 0	12/82	Van Hatten			
MM	4 5 5 9 5 9 5	12/85	Boudreau et al (C)			
MM	4 5 8 3 0 8 9	4/86	Cope			
MM	4 6 2 6 8 4 3	12/86	Szeto et al (C)			
MM	4 6 6 3 7 5 6	5/87	Retterath			
MM	4 7 1 9 6 2 2	1/88	Whipple et al (C)			
MM	4 7 6 3 1 2 2	8/88	Franaszek			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

MM	/	IBM Technical Disclosure Bulletin
		Volume 20, No. 2
		D. F. Bantz

EXAMINER

M. Marcelo

DATE CONSIDERED

06-18-90

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.